

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) An electric power supply unit comprising:
 - a first regulator which converts the voltage of a battery supplied by the battery into a fixed voltage;
 - a second regulator which generates a lower voltage than said first regulator;
 - a voltage detection means which outputs an OFF signal when the output voltage of the first regulator drops less than a first set voltage, and output an ON signal when the output voltage of said first regulator rises more than a second set voltage; and
 - a means which stops the voltage output from said second regulator when the OFF signal is output from said voltage detection means.
2. (Original) An electric power supply unit according to claim 1, wherein
 - said first set voltage is higher than the output voltage generated by said second generator.
3. (Currently Amended) An electric power supply unit according to claim 2, wherein
 - said second regulator ~~that~~ for which the voltage output has been stopped is started when the ON signal is output from said voltage detection means, the battery voltage supplied again by the battery is converted, and the fixed voltage is output.

4. (Previously Presented) An electric power supply unit according to claim 1, wherein said second set voltage is higher than said first set voltage.

5. (Currently Amended) An electric power supply unit comprising:
a first regulator which converts the battery voltage supplied by the battery into a first voltage.

a third regulator which converts the first voltage output from said first regulator into a second voltage.

a second regulator which converts the first voltage output from said first regulator into a third voltage.

a first voltage detection means which outputs an OFF signal when the second voltage output from said third regulator drops to a value less than ~~the~~ a first set voltage, and outputs an ON signal when the second voltage output from said third regulator rises more than the second set voltage, and

a means which stops the voltage output from said second regulator when an OFF signal is output from said first voltage detection means.

6. (Currently Amended) An electric power supply unit comprising:
a first regulator which converts ~~the~~ a battery voltage ~~output from said first regulator~~ into a first ~~second~~ voltage.

a third regulator which converts the second voltage output from said ~~third~~ second regulator into a ~~third~~ first voltage.

a second regulator which converts the second voltage output from said third regulator into a third voltage.

a first voltage detection means which outputs an OFF signal when the second voltage output from said third regulator drops to a value less than ~~the~~ a first set voltage, and outputs an ON signal when the second voltage output from said third regulator rises to a value more than the second set voltage, and

a means which stops the voltage output from said second regulator when an OFF signal is output from said first voltage detection means.

7. (Previously Presented) An electric power supply unit according to claim 5, further comprising:

a second voltage detection means which stops the first voltage output from said first regulator by outputting an OFF signal when the first voltage output from said first regulator drops less than the third set voltage, and outputs the first voltage output from said first regulator by outputting the ON signal when the first voltage output from said first regulator rises more than a set voltage of the fourth.

8. (Previously Presented) An electric power supply unit according to claim 5, wherein said first set voltage is higher than the third voltage generated by the second regulator.

9. (Currently Amended) An electric power supply unit according to claim 5, wherein

when the ON signal is output from said first voltage detection means, said second regulator ~~that~~ for which the voltage output has been stopped is started, the battery voltage supplied again by the battery is converted to output the fixed voltage.

10. (Previously Presented) An electric power supply unit according to claim 5, wherein,

said second set voltage is higher than said first set voltage.

11. (Currently Amended) An electric power supply unit according to claim 5 wherein,

said first set voltage and said second set voltage are lower than ~~the~~ a third set voltage.

12. (Previously Presented) An electric power supply unit according to claim 5, further comprising:

a means which supplies the second voltage output from the third regulator and the third voltage output from said second regulator to a microcomputer as two or more power units for the microcomputer,

wherein said third fixed voltage is lower than the power unit potential difference limited by said microcomputer.

13. (Currently Amended) An electric power supply unit according to claim 5, wherein

when an ON ~~signals~~ signal is output from said second voltage detection means, said first regulator ~~that~~ for the first voltage has been stopped is started, and the battery voltage supplied again by the battery is converted to output the first voltage.

14. (Currently Amended) An electric power supply unit according to claim 13, wherein

~~the~~ a fourth set voltage restarted after the first regulator is stopped is a hysteresis voltage, based on said third set voltage when the first voltage output from said first regulator is abnormal ~~is a hysteresis voltage~~.

15. (Currently Amended) An electric power supply unit to claim 5, further comprising:

an overheating detector provided in an electric power supply unit, which detects overheating,

wherein when said overheating detector detects that the internal temperature of electric power supply unit is at ~~the~~ a preset temperature, ~~the~~ an output of the first voltage from said first regulator is stopped.

16. (Original) An electric power supply unit according to claim 15, further comprising:

a means which restarts said first regulator when the internal temperature of electric power supply unit detected by the overheating detector drops less than the preset temperature after said first regulator is stopped.

17. (Currently Amended) An electric power supply unit according to claim 16, wherein ~~the~~ a set temperature of said overheating detector has a hysteresis characteristic.

18. (Previously Presented) An electric power supply unit according to claim 5, wherein

said first regulator comprises a switching regulator, and said second and third regulators comprises linear regulators.

19. (Currently Amended) An electric power supply unit according to claim 5, wherein

said first regulator comprises a ~~going-up and down~~ variable pressure switching regulator, and said second and third regulators are linear regulators.